

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/657,749BDATE: 07/28/97
TIME: 13:37:17

INPUT SET: S19250.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

(1) General Information:

(i) APPLICANTS: Metz, James G.
Lardizabal, Kathryn D.
Lassner, Michael

(ii) TITLE OF INVENTION: Nucleic Acid Sequences Encoding in A Cytoplasmic Protein

(iii) NUMBER OF SEQUENCES: 39

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Calgene, Inc.

(B) STREET: 1920 Fifth Street

(C) CITY: Davis

(D) STATE: CA

(E) COUNTRY: USA

(F) ZIP: 95616

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Diskette, 3.50 inch, 1.0 MB

(B) COMPUTER: Apple Macintosh

(C) OPERATING SYSTEM: Macintosh 7.0

(D) SOFTWARE: Microsoft Word 5.1a

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 08/657,749

(B) FILING DATE: 30-MAY-96

(C) CLASSIFICATION:

(vi) PRIOR APPLICATION DATA:

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/657,749BDATE: 07/28/97
TIME: 13:37:21

INPUT SET: S19250.raw

47 (A) APPLICATION NUMBER: PCT/US94/13686

48

49 (B) FILING DATE: 30-NOV-94

50

51 (vii) PRIOR APPLICATION DATA:

52

53 (A) APPLICATION NUMBER: 08/265,047

54

55 (B) FILING DATE: 23-JUN-94

56

57 (C) CLASSIFICATION:

58

59 (vii) PRIOR APPLICATION DATA:

60

61 (A) APPLICATION NUMBER: 08/160,602

62

63 (B) FILING DATE: 30-NOV-93

64

65 (C) CLASSIFICATION:

66

67 (vii) PRIOR APPLICATION DATA:

68

69 (A) APPLICATION NUMBER: 08/066,299

70

71 (B) FILING DATE: 20-MAY-93

72

73 (vii) PRIOR APPLICATION DATA:

74

75 (A) APPLICATION NUMBER: PCT/US92/09863

76

77 (B) FILING DATE: 13-NOV-92

78

79 (vii) PRIOR APPLICATION DATA:

80

81 (A) APPLICATION NUMBER: 07/933,411

82

83 (B) FILING DATE: 21-AUG-92

84

85 (vii) PRIOR APPLICATION DATA:

86

87 (A) APPLICATION NUMBER: 07/796,256

88

89 (B) FILING DATE: 20-NOV-91

90

91 (viii) ATTORNEY/AGENT INFORMATION:

92

93 (A) NAME: Elizabeth Lassen

94

95 (B) REGISTRATION NUMBER: 31,845

96

97 (A) NAME: Donna E. Scherer

98

99 (B) REGISTRATION NUMBER: 34,719

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/657,749BDATE: 07/28/97
TIME: 13:37:24

INPUT SET: S19250.raw

100
101 (A) NAME: Carl J. Schwedler
102
103 (B) REGISTRATION NUMBER: 36,924
104
105 (C) REFERENCE/DOCKET NUMBER: CGNE 101-2 WO
106
107 (ix) TELECOMMUNICATION INFORMATION:
108
109 (A) TELEPHONE: (916) 753-6313
110
111 (B) TELEFAX: (916) 753-1510
112
113
114 (2) INFORMATION FOR SEQ ID NO:1:
115
116 (i) SEQUENCE CHARACTERISTICS:
117
118 (A) LENGTH: 1786 base pairs
119
120 (B) TYPE: nucleic acid
121
122 (C) STRANDEDNESS: single
123
124 (D) TOPOLOGY: linear
125
126 (ii) MOLECULE TYPE: cDNA to mRNA
127
128 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
129
130 AAATCCTCCA CTCATACACT CCACTTCTCT CTCTCTCTCT CTCTCTCTGA AACAAATTTGA 60
131
132
133 GTAGCAAAC TAAAAGAAA ATG GAG GAA ATG GGA AGC ATT TTA GAG TTT CTT 112
134 Met Glu Glu Met Gly Ser Ile Leu Glu Phe Leu
135 1 5 10
136
137
138 GAT AAC AAA GCC ATT TTG GTC ACT GGT GCT ACT GGC TCC TTA GCA AAA 160
139 Asp Asn Lys Ala Ile Leu Val Thr Gly Ala Thr Gly Ser Leu Ala Lys
140 15 20 25
141
142
143 ATT TTT GTG GAG AAG GTA CTG AGG AGT CAA CCG AAT GTG AAG AAA CTC 208
144 Ile Phe Val Glu Lys Val Leu Arg Ser Gln Pro Asn Val Lys Lys Leu
145 30 35 40
146
147
148 TAT CTT CTT TTG AGA GCA ACC GAT GAC GAG ACA GCT GCT CTA CGC TTG 256
149 Tyr Leu Leu Leu Arg Ala Thr Asp Asp Glu Thr Ala Ala Leu Arg Leu
150 45 50 55
151
152

RAW SEQUENCE LISTING PATENT APPLICATION US/08/657,749B

 DATE: 07/28/97
 TIME: 13:37:27

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153	CAA AAT GAG GTT TTT GGA AAA GAG TTG TTC AAA GTT CTG AAA CAA AAT	304
154	Gln Asn Glu Val Phe Gly Lys Glu Leu Phe Lys Val Leu Lys Gln Asn	
155	60 65 70 75	
156		
157		
158	TTA GGT GCA AAT TTC TAT TCC TTT GTA TCA GAA AAA GTG ACT GTA GTA	352
159	Leu Gly Ala Asn Phe Tyr Ser Phe Val Ser Glu Lys Val Thr Val Val	
160	80 85 90	
161		
162		
163	CCC GGT GAT ATT ACT GGT GAA GAC TTG TGT CTC AAA GAC GTC AAT TTG	400
164	Pro Gly Asp Ile Thr Gly Glu Asp Leu Cys Leu Lys Asp Val Asn Leu	
165	95 100 105	
166		
167		
168	AAG GAA GAA ATG TGG AGG GAA ATC GAT GTT GTT GTC AAT CTA GCT GCT	448
169	Lys Glu Glu Met Trp Arg Glu Ile Asp Val Val Val Asn Leu Ala Ala	
170	110 115 120	
171	ACA ATC AAC TTC ATT GAA AGG TAC GAC GTG TCT CTG CTT ATC AAC ACA	496
172	Thr Ile Asn Phe Ile Glu Arg Tyr Asp Val Ser Leu Leu Ile Asn Thr	
173	125 130 135	
174		
175		
176	TAT GGA GCC AAG TAT GTT TTG GAC TTC GCG AAG AAG TGC AAC AAA TTA	544
177	Tyr Gly Ala Lys Tyr Val Leu Asp Phe Ala Lys Lys Cys Asn Lys Leu	
178	140 145 150 155	
179		
180		
181	AAG ATA TTT GTT CAT GTA TCT ACT GCT TAT GTA TCT GGA GAG AAA AAT	592
182	Lys Ile Phe Val His Val Ser Thr Ala Tyr Val Ser Gly Glu Lys Asn	
183	160 165 170	
184		
185		
186	GGG TTA ATA CTG GAG AAG CCT TAT TAT ATG GGC GAG TCA CTT AAT GGA	640
187	Gly Leu Ile Leu Glu Lys Pro Tyr Tyr Met Gly Glu Ser Leu Asn Gly	
188	175 180 185	
189		
190		
191	AGA TTA GGT CTG GAC ATT AAT GTA GAG AAG AAA CTT GTG GAG GCA AAA	688
192	Arg Leu Gly Leu Asp Ile Asn Val Glu Lys Lys Leu Val Glu Ala Lys	
193	190 195 200	
194		
195		
196	ATC AAT GAA CTT CAA GCA GCG GGG GCA ACG GAA AAG TCC ATT AAA TCG	736
197	Ile Asn Glu Leu Gln Ala Ala Gly Ala Thr Glu Lys Ser Ile Lys Ser	
198	205 210 215	
199		
200		
201	ACA ATG AAG GAC ATG GGC ATC GAG AGG GCA AGA CAC TGG GGA TGG CCA	784
202	Thr Met Lys Asp Met Gly Ile Glu Arg Ala Arg His Trp Gly Trp Pro	
203	220 225 230 235	
204		
205		

RAW SEQUENCE LISTING PATENT APPLICATION *US/08/657,749B*

 DATE: 07/28/97
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INPUT SET: *S19250.raw*

206	AAT GTG TAT GTA TTC ACC AAG GCA TTA GGG GAG ATG CTT TTG ATG CAA	832
207	Asn Val Tyr Val Phe Thr Lys Ala Leu Gly Glu Met Leu Leu Met Gln	
208	240 245 250	
209		
210		
211	TAC AAA GGG GAC ATT CCG CTT ACT ATT ATT CGT CCC ACC ATC ATC ACC	880
212	Tyr Lys Gly Asp Ile Pro Leu Thr Ile Ile Arg Pro Thr Ile Ile Thr	
213	255 260 265	
214		
215		
216	AGC ACT TTT AAA GAG CCC TTT CCT GGT TGG GTT GAA GGT GTC AGG ACC	928
217	Ser Thr Phe Lys Glu Pro Phe Pro Gly Trp Val Glu Gly Val Arg Thr	
218	270 275 280	
219		
220		
221	ATC GAT AAT GTA CCT GTA TAT TAT GGT AAA GGG AGA TTG AGG TGT ATG	976
222	Ile Asp Asn Val Pro Val Tyr Tyr Gly Lys Gly Arg Leu Arg Cys Met	
223	285 290 295	
224		
225		
226	CTT TGC GGA CCC AGC ACA ATA ATT GAC CTG ATA CCG GCA GAT ATG GTC	1024
227	Leu Cys Gly Pro Ser Thr Ile Ile Asp Leu Ile Pro Ala Asp Met Val	
228	300 305 310 315	
229		
230		
231	GTG AAT GCA ACG ATA GTA GCC ATG GTG GCG CAC GCA AAC CAA AGA TAC	1072
232	Val Asn Ala Thr Ile Val Ala Met Val Ala His Ala Asn Gln Arg Tyr	
233	320 325 330	
234		
235		
236	GTA GAG CCG GTG ACA TAC CAT GTG GGA TCT TCA GCG GCG AAT CCA ATG	1120
237	Val Glu Pro Val Thr Tyr His Val Gly Ser Ser Ala Ala Asn Pro Met	
238	335 340 345	
239		
240		
241	AAA CTG AGT GCA TTA CCA GAG ATG GCA CAC CGT TAC TTC ACC AAG AAT	1168
242	Lys Leu Ser Ala Leu Pro Glu Met Ala His Arg Tyr Phe Thr Lys Asn	
243	350 355 360	
244		
245		
246	CCA TGG ATC AAC CCG GAT CGC AAC CCA GTA CAT GTG GGT CGG GCT ATG	1216
247	Pro Trp Ile Asn Pro Asp Arg Asn Pro Val His Val Gly Arg Ala Met	
248	365 370 375	
249		
250		
251	GTC TTC TCC TCC TTC TCC ACC TTC CAC CTT TAT CTC ACC CTT AAT TTC	1264
252	Val Phe Ser Ser Phe Ser Thr Phe His Leu Tyr Leu Thr Leu Asn Phe	
253	380 385 390 395	
254		
255		
256	CTC CTT CCT TTG AAG GTA CTG GAG ATA GCA AAT ACA ATA TTC TGC CAA	1312
257	Leu Leu Pro Leu Lys Val Leu Glu Ile Ala Asn Thr Ile Phe Cys Gln	
258	400 405 410	



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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION *US/08/657,749B*

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TIME: 13:37:35

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